ENGLISH

ESPAÑOL

Multi-CD control High power cassette player with FM/AM tuner

Reproductor de cassette de alta potencia con control múltiple de CD y sintonizador FM/AM

SUPER TUNER III

KEH-P4650

Operation Manual
Manual de Operación

PIONEER

The Art of Entertainment

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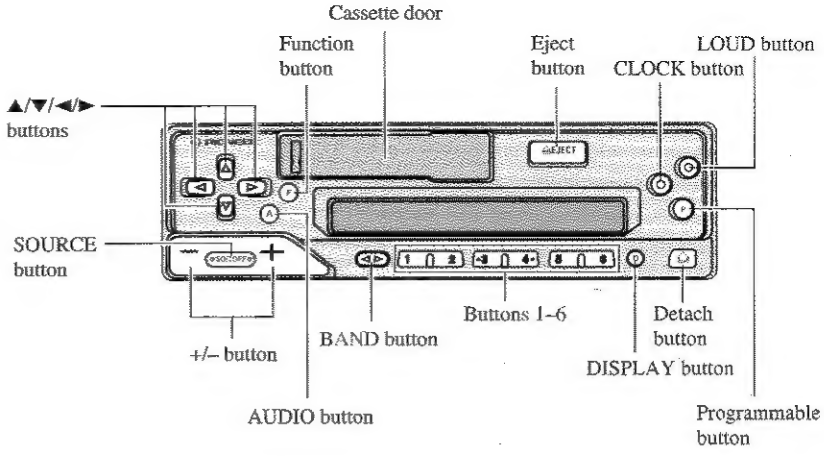
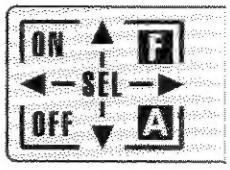

Cassette door
Function button
Eject button
LOUD button
CLOCK button
▲/▼/◄/► buttons
SOURCE button
Buttons 1-6
Detach button
BAND button
+/– button
DISPLAY button
AUDIO button
Programmable button

About This Product

This unit's display features Key Guidance Indicators. These light to indicate which of the ▲/▼/◄/► and function buttons you can use. When you're in the Function Menu or Audio Adjustment Menu, they also make it easy to see which ▲/▼/◄/► buttons you can use to switch functions ON/OFF, switch repeat selections, and perform other operations. Indicator and corresponding buttons are shown below.

Indicator	Button
F	FUNCTION
A	AUDIO
↑	▲
↓	▼
←	◄
→	►

Key Guidance Indicators



Note:

- When "ON" and "OFF" are lit, you can switch the currently selected function ON/OFF with the ▲/▼ buttons.
- When "SEL" is lit, you can use the ◄/► buttons to switch selection options of the currently selected function.

About This Manual

This product features a number of sophisticated functions ensuring superior reception and operation. All are designed for the easiest possible use, but many are not self-explanatory. This operation manual is intended to help you benefit fully from their potential and to maximize your listening enjoyment.

We recommend that you familiarize yourself with the functions and their operation by reading through the manual before you begin using this product. It is especially important that you read and observe the "Precaution" on this page and in other sections.

In this Operation Manual, the Basic Operation for each sound source is outlined at the beginning of its explanation, covering simple operation for that source, such as merely playing music.

Precaution

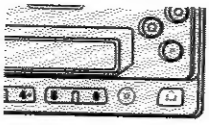
- Keep this manual handy as a reference for operating procedures and precautions.
- Always keep the volume low enough for outside sounds to be audible.
- Protect the product from moisture.
- If the battery is disconnected, the preset memory will be erased and must be reprogrammed.
- Should this product fail to operate properly, contact your dealer or nearest authorized Pioneer Service Station.

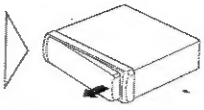
Theft Protection

The front panel of the main body is detachable to discourage theft.

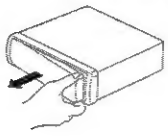
■ Detaching the front panel

1. **Eject the front panel.**





2. **To remove the front panel, pull its right-hand side toward you.**

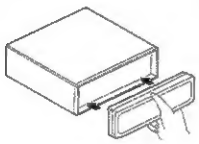


Take care not to grip it tightly or drop it.

3. **Use the protective case provided to store/carry the detached front panel.**

■ Replacing the Front Panel

- **Replace the front panel by clipping it into place.**



Precaution:

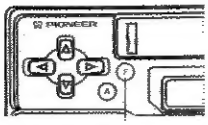
- Never use force or grip the display tightly when removing or replacing the front panel.
- Avoid subjecting the front panel to excessive shocks.
- Keep the front panel out of direct sunlight and high temperatures.

Initial Setting Menu

With this menu, you can perform initial settings for the unit.

Entering the Initial Setting Menu

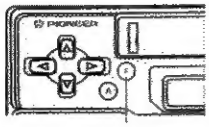
1. Enter the Initial Setting Menu with the sources off.



Hold for 2 seconds

To cancel the Initial Setting Menu, press the BAND button.

2. Select the desired mode.



Each press
changes the Mode ...

Each press of the Function button selects the mode in the following order:
FM STEP → AM STEP → AUX

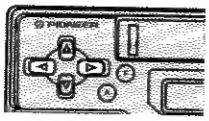
Note:

- Holding down the Function button for 2 seconds also cancels the Initial Setting Menu.

Changing the FM Tuning Step

The tuning step employed by Seek Tuning in the FM mode can be switched between 100 kHz (preset at the factory) and 50 kHz.

- **Select the desired tuning step.**



Note:

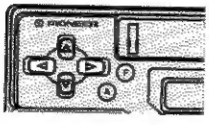
- If Seek Tuning is performed in 50 kHz steps, stations may be tuned in inprecisely. Tune in the stations with Manual Tuning or use Seek Tuning again.

Changing the AM Tuning Step

The tuning step employed in the tuner's AM band can be switched between 9 kHz and 10 kHz per step. Reset the tuning step from 9 kHz (the factory prset step) to 10 kHz when using the tuner in North, Central or South America.

Specifications	Initial Setting	New Setting
Tuning Steps	9 kHz	10 kHz
Frequency range	531 – 1,602 kHz	530 – 1,710 kHz

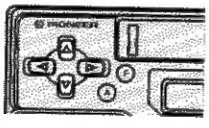
- **Select the desired tuning step.**



Switching the AUX mode

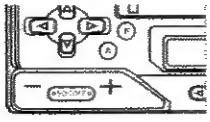
It is possible to use auxiliary (AUX) equipment with this product.
Activate the AUX mode when using external equipment with this product.

- **Switch the AUX mode ON or OFF.**



Switching Power ON/OFF

- **Select the desired source (such as the tuner).**



Each press of the SOURCE button selects the desired source in the following order:
CD player (one disc only) → Tuner → Tape → Multi-CD player → AUX

To switch the sources OFF, hold down the SOURCE button for 1 second or more.

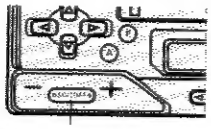
Note:

- In the following cases, the sound source will not change:
  - * No Multi-CD player is connected to this unit.
  - * No cassette tape is set in this unit.
  - * No magazine is set in the Multi-CD player.
  - * No disc is set in the CD player.
  - * AUX (external input) is set to OFF. (See page 7.)

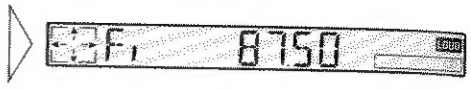
Reset the AM tuning step from 9 kHz (the factory preset step) to 10 kHz when using the tuner in North, Central or South America. (See page 7.)

Basic Operation of Tuner

1. **Select Tuner. (See page 8.)**

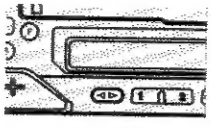


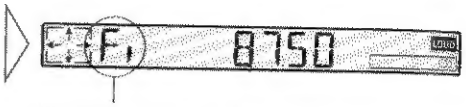
Each press changes the Source ...



Frequency appears on the display.
("◯" indicator lights when a stereo station is selected.)

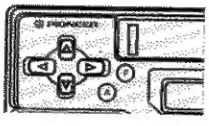
2. **Select the desired band.**

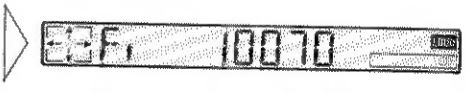




FI → FII → FIII → AM

3. **Tune the receiver to a higher or lower frequency.**





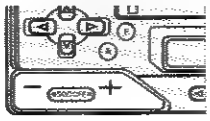
This product's tuner lets you select the tuning by changing the length of the time you press the button.

Manual Tuning (step by step)	0.3 seconds or less
Seek Tuning	0.3 – 2 seconds
Manual Tuning (continuously)	2 seconds or more

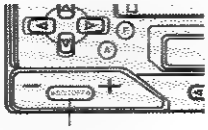
Note:

- To select a weak broadcasting station that cannot be tuned in with the Seek Tuning function, tune in with Manual Tuning.

4. **Raise or lower the volume.**



5. **Turn the source OFF. (See page 8.)**

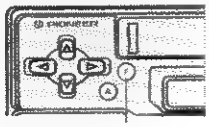


Hold for 1 second

Entering the Function Menu

In this menu you can select tuner functions.

- **Select the desired mode in Function Menu.**



Each press
changes the Mode ...

Each press of the Function button selects the mode in the following order:
BSM → LOCAL

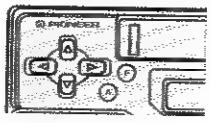
Note:

- You can cancel the Function Menu by pressing the BAND button.
- After selecting the Function Menu, if you do not perform an operation within about 30 seconds, the Function Menu is automatically canceled.

Local Seek Tuning

This mode selects only stations with especially strong signals.

1. **Select the Local mode in the Function Menu.**
2. **Switch the Local mode ON or OFF.**



"LOC"

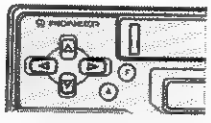
Preset Tuning

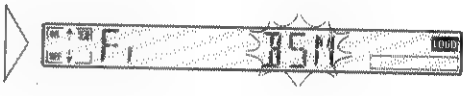
Up to 18 FM stations (6 in FI (FM1), FII (FM2) and FIII (FM3)) and 6 AM stations can be stored in memory.
Store the stations in memory under buttons 1–6 beforehand with the BSM (Best Stations Memory) or Preset Memory function.

BSM (Best Stations Memory)

The BSM function stores stations in memory automatically.

1. **Select the BSM mode in the Function Menu.**
2. **Switch the BSM mode ON.**

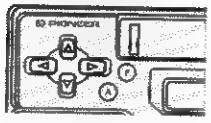


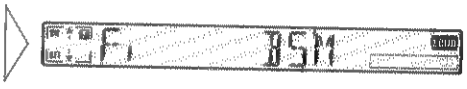


The stations with the strongest signals will be stored under buttons 1–6 and in order of their signal strength.

Note:
- Pressing the BAND button cancels the Function Menu.

- **To cancel the process, press the ▼ button in the Function Menu before memorization is complete.**

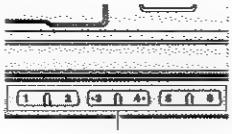




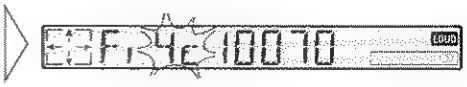
Preset Memory

The Preset Memory function stores stations in memory manually.

1. **Select the station whose frequency you want to store in memory.**
2. **Press one of buttons 1–6 for 2 seconds or longer to store the desired stations.**



Hold for 2 seconds



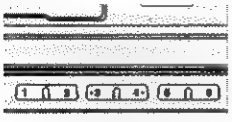
The station is stored in memory under the selected button.

Recalling Preset Stations

There are two ways to recall preset stations.

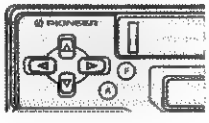
■ Direct Recall

- **Press one of buttons 1–6 to recall a station preset under that button.**



■ Sequential Recall

- **Recall a station preset under button 1–6.**

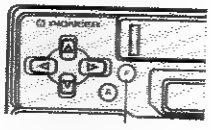


Using the Programmable Button

You can memorize Function Menu BSM and LOCAL functions in the Programmable button.
Initially, the BSM function is memorized in the Programmable button.

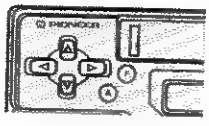
■ Setting the Programmable Button

1. **Select the Programmable button setting mode.**

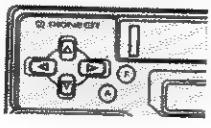


Hold for 2 seconds

2. **Select the function you want to memorize in the Programmable button.**



3. **Memorize the function in the Programmable button.**

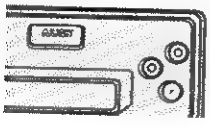


Note:
- Pressing the BAND button cancels the Detailed Setting Menu.

■ Using the Programmable Button

The Programmable button operates in a different way depending on the function programmed (memorized).

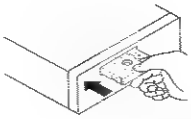
- **Use the programmable button.**



Function	Press	Hold for 2 seconds
BSM	——	ON/OFF
LOC	ON/OFF	——

Basic Operation of Cassette Player

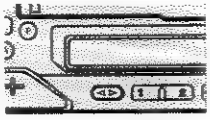
1. **Insert the cassette tape.**

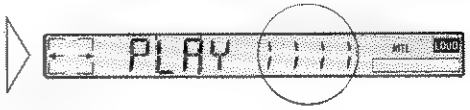


"MTL"

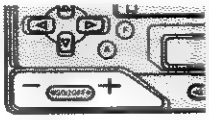
"MTL" appears on the display automatically when a metal or chrome tape is inserted. Nothing is displayed for a normal tape.

2. **Switch tape playback from side A to side B, or vice versa.**

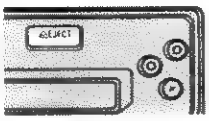


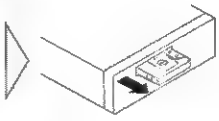


3. **Raise or lower the volume.**



4. **Remove the cassette tape.**





Note:

- The Tape function can be turned ON/OFF with the cassette tape remaining in this product. (See page 8.)

Fast Forward/Rewind and Music Search

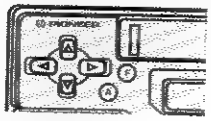
■ Fast Forward and Forward-Music Search

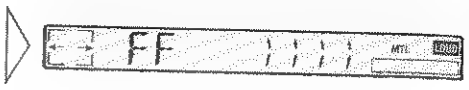
While "FF" is displayed, the system fast-forwards the cassette tape to the end of the current side.

While "F-MS" is displayed, the system winds the cassette tape forward to the beginning of the next song, then play begins from that point.

- **Select the desired mode in the following order:**

FF → F-MS → Normal playback





Note:

- Fast Forward (FF) and Forward-Music Search (F-MS) can be canceled by pressing the BAND button during FF or F-MS operation.

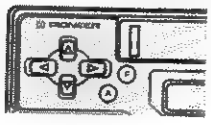
■ Rewind and Rewind-Music Search

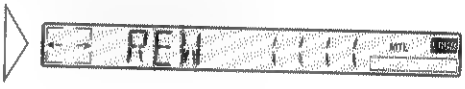
While "REW" is displayed, the system rewinds the cassette tape to the beginning of the current side.

While "R-MS" is displayed, the system rewinds the cassette tape to the beginning of the current song, then play begins from that point.

- **Select the desired mode in the following order:**

REW → R-MS → Normal playback





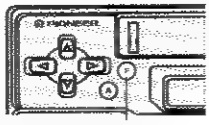
Note:

- Rewind (REW) and Rewind-Music Search (R-MS) can be canceled by pressing the BAND button during the REW or R-MS operation.

Entering the Function Menu

In this menu you can select Tape functions.

- **Select the desired mode in Function Menu.**



Each press
changes the Mode ...

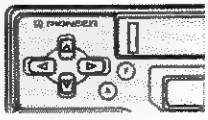
Each press of the Function button selects the mode in the following order:
REPEAT → B SKIP → RI → B NR

Note:
- You can cancel the Function Menu by pressing the BAND button.
- After selecting the Function Menu, if you do not perform an operation within about 30 seconds, the Function Menu is automatically canceled.

Dolby B NR

Switch to the Dolby B NR on when listening to a cassette recorded with Dolby B NR.

1. **Select the Dolby B NR mode in the Function Menu.**
2. **Switch the Dolby B NR mode ON or OFF.**



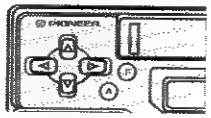
"DD B"

Note:
- Pressing the BAND button cancels the Function Menu.
- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
  "DOLBY" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

Blank Skip

This function fast-forwards to the next song automatically if there is a long period of silence (12 seconds or longer) between songs.

1. **Select the Blank Skip mode in the Function Menu.**
2. **Switch the Blank Skip mode ON or OFF.**



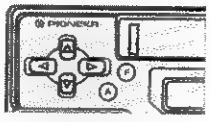
Note:
- Pressing the BAND button cancels the Function Menu.

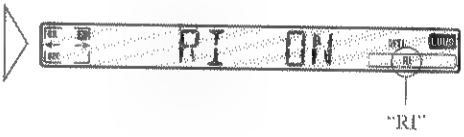
Radio Intercept

This function allows you to listen to the radio during tape fast-forwarding/rewinding.

Note:
- The radio intercept function does not work during a Music Search operation.

1. **Select the Radio Intercept mode in the Function Menu.**
2. **Switch the Radio Intercept mode ON or OFF.**



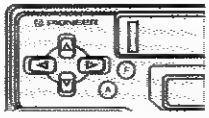


Note:
- Pressing the BAND button cancels the Function Menu.

Repeat Playback

The repeat mode lets you hear the same song over again.

1. **Select the Repeat mode in the Function Menu.**
2. **Switch the Repeat mode ON or OFF.**



Note:

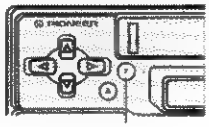
- Pressing the BAND button cancels the Function Menu.

Using the Programmable Button

In the Function Menu you can memorize the B NR, BS, RPT and RI functions in the Programmable button.
Initially, the B NR function is memorized in the Programmable button.

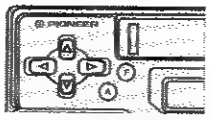
■ Setting the Programmable Button

1. **Select the Programmable button setting mode.**

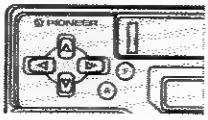


Hold for 2 seconds

2. **Select the function you want to memorize in the Programmable button.**



3. **Memorize the function in the Programmable button.**



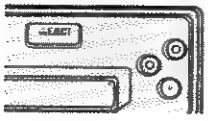
Note:

- Pressing the BAND button cancels the Detailed Setting Menu.

■ Using the Programmable Button

The Programmable button operates in a different way depending on the function programmed (memorized).

- **Use the Programmable button.**



Function	Press	Hold for 2 seconds
B NR	ON/OFF	———
BS (B SKIP)	ON/OFF	———
RPT (REPEAT)	ON/OFF	———
RI	ON/OFF	———

Precaution

■ About the Cassette Player

- A loose or warped label on a cassette tape may interfere with the eject mechanism of the unit or cause the cassette to become jammed in the unit. Avoid using such tapes or remove such labels from the cassette before attempting use.
- The music search and repeat functions may not work properly with the following kinds of recorded tapes because the gap between songs cannot be found correctly.
  * A tape with a gap of 4 seconds or less between songs.
  * A tape containing dialog, etc., with pauses lasting for 4 seconds or longer.
  * A tape with an extremely quiet passage in the music lasting for 4 seconds or longer.

■ About Cassette Tapes

- Do not use tapes longer than C-90 type (90 min.) cassettes. Longer tapes can interfere with tape transport.
- Storing cassettes in areas directly exposed to sunlight or high temperatures can distort them and subsequently interfere with tape transport.

- Store unused tapes in a tape case where there is no danger of them becoming loose or being exposed to dust.

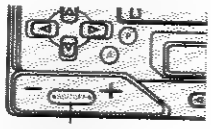
Cleaning the Head

If the head becomes dirty, the sound quality will deteriorate and there will be sound dropouts and other imperfections in performance. In this case, the head must be cleaned.

This product can control a CD player (one disc only).

Basic Operation of CD Player

1. **Select the CD player source. (See page 8.)**

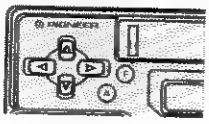


Each press changes the Source ...

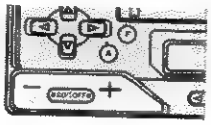
Note:

- The CD player is selected only when a CD is loaded.
- If the CD player cannot operate properly, an error message such as "ERROR 14" is displayed. Refer to the CD player owner's manual.

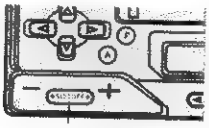
2. **Reverse or advance track by track.**



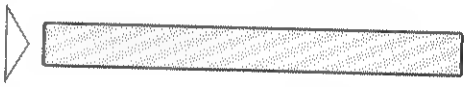
3. **Raise or lower the volume.**



4. **Turn the source OFF. (See page 8.)**



Hold for 1 second



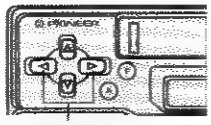
Track Search and Fast-forward/Reverse

Besides Track Search convenience when searching for a desired track, this unit also lets you fast-forward and reverse through tracks to find a desired phrase or section of music.

■ Track Search

This feature enables you to advance or reverse track by track.

- **Reverse or advance track by track.**

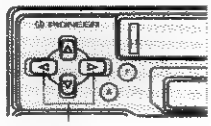


Hold for half a second or less

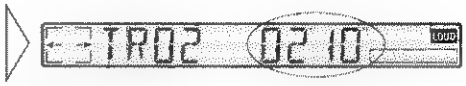
■ Fast-forward/Reverse

This feature enables you to advance or reverse at high speed between tracks.

- **Reverse or fast-forward through tracks.**



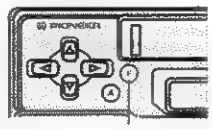
Continue pressing



Entering the Function Menu

In this menu you can select CD player functions.

- **Select the desired mode in Function Menu.**



Each press changes the Mode ...

Each press of the Function button selects the mode in the following order:
REPEAT → RANDOM → PAUSE

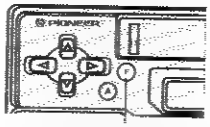
Note:

- You can cancel the Function Menu by pressing the BAND button.
- After selecting the Function Menu, if you do not perform an operation within about 30 seconds, the Function Menu is automatically canceled.

Entering the Detailed Setting Menu

In this menu you can perform Disc Title Input and Programmable button settings.

- **Enter the Detailed Setting Menu.**



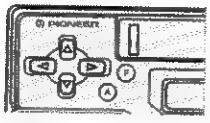
Hold for 2 seconds

Each press of the Function button selects the mode in the following order:
TITLE IN → PGM-FUNC
To cancel the Detailed Setting Menu, hold down the Function button for 2 seconds.

Note:
- Pressing the BAND button also cancels the Detailed Setting Menu.
- If a Multi-CD Player is not connected, "TITLE IN" is not displayed, and Disc Title Input is not possible.

Pause

1. **Select the Pause mode in the Function Menu.**
2. **Stop playback temporarily or restarts the system.**



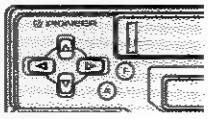
Note:
- Pressing the BAND button cancels the Function Menu.

CD Player Repeat Modes

The CD player offers two repeat modes.: Disc Repeat (normal play), the default mode, and One-track Repeat.

1 **Select the Repeat mode in the Function Menu.**

2. **Switch the One-track Repeat mode ON or OFF.**



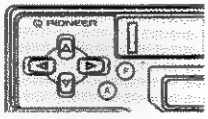
Note:
- Pressing the BAND button cancels the Function Menu.
- When Track Search or fast-forward/reverse is performed, the mode returns to the default Disc Repeat mode (normal play).

Random Play

The Random Play mode plays the tracks on a CD in random order for variety.

1. **Select the Random mode in the Function Menu.**

2. **Switch the Random Play ON or OFF.**



Note:
- Pressing the BAND button cancels the Function Menu.
- Since playback is random, the same track may be repeated consecutively.

Disc Title Input

The CD player's Disc Title Input function is possible for up to 100 discs when one or more multi-CD players are installed.

1. **Play the disc you wish to input the disc title.**

2. **Select the Disc Title Input mode in the Detailed Setting Menu.**

3. **Input the Disc Title.**

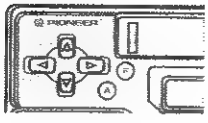
Refer to "Disc Title Input" on page 34, and perform procedures 3 to 5 in the same way.

Using the Programmable Button

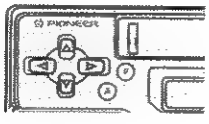
In the Function Menu, you can memorize the PAUSE, REPEAT and RANDOM functions in the Programmable button.
Initially, PAUSE is memorized in the Programmable button.

■ Setting the Programmable Button

1. **Select the Programmable button setting mode in the Detailed Setting Menu.**
2. **Select the function you want to memorize in the Programmable button.**



3. **Memorize the function in the Programmable button.**

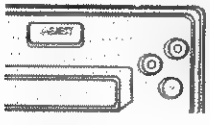


Note:
- Pressing the BAND button cancels the Detailed Setting Menu.

■ Using the Programmable Button

The Programmable button operates in a different way depending on the function programmed (memorized).

- **Use the Programmble button.**

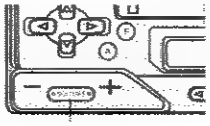


Function	Press	Hold for 2 seconds
PAUSE	ON/OFF	——
REPEAT	ON/OFF	——
RANDOM	ON/OFF	——

This product can control one or more multi-CD players.

Basic Operation of Multi-CD Players

1. **Select the multi-CD player source. (See page 8.)**

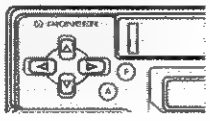


Each press
changes the Source ...

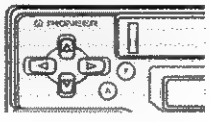
Note:

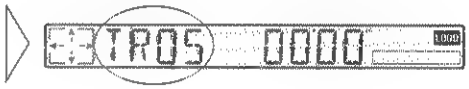
- The multi-CD player may perform a preparatory operation, such as verifying the presence of a disc or reading disc information, when the power is turned ON or a new disc is selected for playback. "READY" is displayed.
- If the multi-CD player cannot operate properly, an error message such as "ERROR 14" is displayed. Refer to the multi-CD player owner's manual.

2. **Select the desired disc.**

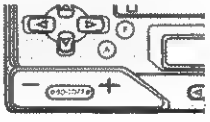


3. **Reverse or advance track by track.**

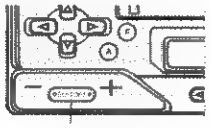


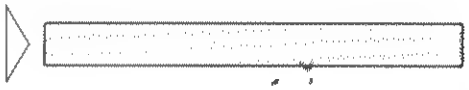


4. **Raise or lower the volume.**



5. **Turn the source OFF. (See page 8.)**



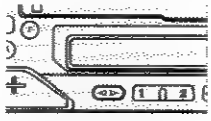


Hold for 1 second

Switching the Multi-CD Player

It is possible to connect up to three multi-CD players by means of a multiple installation adapter. When two or more multi-CD players are installed, their priorities must be specified. Follow the multi-CD player instructions carefully, and set the address switches properly.

- **Select the multi-CD player you want to use.**



M1 → M2 → M3

Disc Number Search

■ Disc Number Search (for 6-Disc, 12-Disc types)

You can select discs directly with the 1 to 6 buttons. Just press the number corresponding to the disc you want to listen to.

Note:

- When a 12-Disc Multi-CD Player is connected and you want to select disc 7 to 12, press the 1 to 6 buttons for 2 seconds or longer.

- **Select the desired disc. (eg. Press button 3.)**

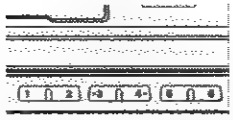
■ Disc Number Rough Search (for 50-Disc type only)

This handy function lets you select discs loaded in a 50-Disc Multi-CD Player using the 1 to 5 buttons. The 50 discs are divided into five blocks, with each of the 1 to 5 buttons assigned to a block.
For example, if you press button 1, discs 10 through 19 are searched in order, and then the disc with the lowest disc number is selected.

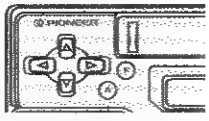
Note:

- Pressing button 5 lets you select the 50th disc only.
- Button 6 does not operate.
- Rough search of discs 1 to 9 is not possible. Use the ▲/▼ buttons to select a desired disc.

1. **Press the appropriate button from 1 to 5 to select the block containing the desired disc. (eg. Press button 4.)**



2. **Select the desired disc.**



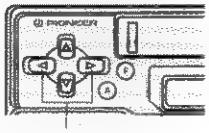
Track Search and Fast-forward/Reverse

Besides Track Search convenience when searching for a desired track, this unit also lets you fast-forward and reverse through tracks to find a desired phrase or section of music.

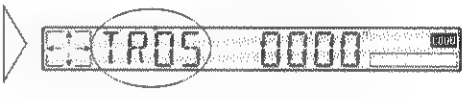
■ Track Search

This feature enables you to advance or reverse track by track.

- **Reverse or advance track by track.**



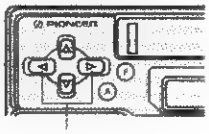
Hold for half a second or less



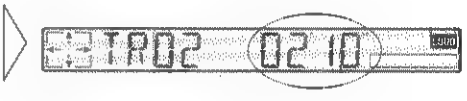
■ Fast-forward/Reverse

This feature enables you to advance or reverse at high speed between tracks.

- **Reverse or fast-forward through tracks.**



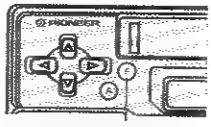
Continue pressing



Entering the Function Menu

In this menu you can select Multi-CD Player functions.

- **Select the desired mode in Function Menu.**



Each press
changes the Mode ...

Each press of the Function button selects the mode in the following order:
REPEAT → LIST → RANDOM → ITS P → PAUSE

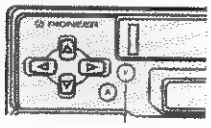
Note:

- You can cancel the Function Menu by pressing the BAND button.
- After selecting the Function Menu, if you do not perform an operation within about 30 seconds, the Function Menu is automatically canceled.

Entering the Detailed Setting Menu

In this menu you can perform Disc Title Input, and ITS Program and Programmable button settings.

- **Enter the Detailed Setting Menu.**



Hold for 2 seconds

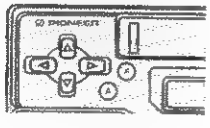
Each press of the Function button selects the mode in the following order:
TITLE IN → ITS → PGM-FUNC
To cancel the Detailed Setting Menu, hold down the Function button for 2 seconds.

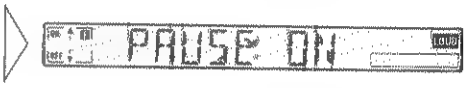
Note:

- Pressing the BAND button also cancels the Detailed Setting Menu.

Pause

1. **Select the Pause mode in the Function Menu.**
2. **Stop playback temporarily or restarts the system.**





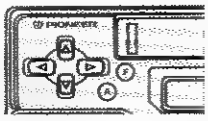
Note:

- Pressing the BAND button cancels the Function Menu.

Multi-CD Player Repeat Modes

Multi-CD players offer four repeat modes: One-track Repeat, Disc Repeat, Multi-CD player Repeat and All Repeat. Multi-CD player Repeat is the default mode (normal play) when one or more multi-CD players is installed.

1. **Select the Repeat Selecting mode in the Function Menu.**
2. **Select the desired repeat mode in the following order:**



Multi-CD player Repeat ("MCD" is displayed) → ALL Repeat ("ALL" is displayed) → One-track Repeat ("TRK" is displayed) → Disc Repeat ("DSC" is displayed)

Note:
- Pressing the BAND button cancels the Function Menu.
- All Repeat is available only when two or more multi-CD players are installed.

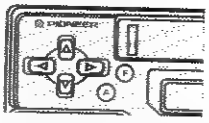
Multi-CD player repeat modes

Mode	Operation
One-track Repeat	Plays current track repeatedly. • When Track Search or fast forward/reverse is performed, the mode returns to the Disc Repeat mode. • When a different disc or multi-CD player is selected, the mode switches to the Multi-CD player Repeat mode.
Disc Repeat	Plays current disc repeatedly. • When a different disc or multi-CD player is selected, the mode switches to the Multi-CD player Repeat mode.
Multi-CD player Repeat (normal play)	Plays all discs loaded in the multi-CD player magazine repeatedly in order, starting with the first disc.
All Repeat	Plays all discs in the magazines of all multi-CD players in order.

Multi-CD Player Random Play

Random Play is available when one or more multi-CD players are in use.

1. **Select the Random mode in the Function Menu.**
2. **Switch the Random Play ON or OFF.**



When Multi-CD Player Random Play is ON, you can combine it with Repeat Mode to operate as shown below. Switching the Repeat Mode switches Random Play OFF.

Note:

- Pressing the BAND button cancels the Function Menu.
- Since playback is random, the same track may be repeated consecutively.

■ Multi-CD player Random Play options

Mode	Operation
One-track Repeat	The mode returns to the Disc Repeat mode, and all tracks on the current disc are played randomly.
Disc Repeat	All tracks on the current disc are played randomly.
Multi-CD player Repeat	All tracks on the discs in the multi-CD player magazine are played randomly.
All Repeat	All tracks on the discs in all the multi-CD players are played randomly.

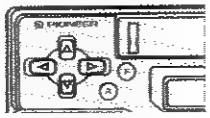
ITS (Instant Track Selection)

The ITS function allows you to search for the track you wish to play back when one or more multi-CD players are installed. Your multi-CD player's ADPS (Automatic Disc Program Selection) function allows you to carry out Disk Title Input for up to 100 discs and to program up to 24 tracks on each disc for automatic playback. After 100 discs have been programmed, data for a new disc will overwrite the data for the disc that has not been played back for the longest time.

■ ITS Programming

ITS programming can be conducted in any multi-CD player playback mode except ITS playback.

1. **Play the track you wish to program.**
2. **Select the ITS Programming mode in the Detailed Setting Menu.**
3. **Program the desired track.**

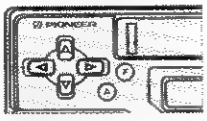


Note:
- Pressing the BAND button cancels the Detailed Setting Menu.

ITS Playback

ITS playback can be performed in any repeat mode.

1. **Select the ITS Playback mode in the Function Menu.**
2. **Switch the ITS Playback ON or OFF.**



When ITS Play is ON, you can combine it with Repeat Mode to operate as shown below. If you change Repeat Mode into One-track Repeat, ITS Play will be turned OFF.
The ITS programmed tracks are played back in order from first to last.

Note:
- Pressing the BAND button cancels the Function Menu.
- If no track in the current range is programmed for ITS playback, "ITS EMPTY" is displayed.

Multi-CD player ITS play

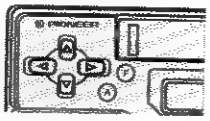
Mode	Operation
One-track Repeat	The mode returns to the Disc Repeat mode and all programmed tracks on the current disc are played.
Disc Repeat	All programmed tracks on the current disc are played.
Multi-CD player Repeat	All programmed tracks on the discs in the multi-CD player magazine are played back. • If there are no programmed tracks on the current disc, ITS advances to the next disc.
All Repeat	The programmed tracks on all the discs in the magazines of all the installed multi-CD are played back. • If there are no programmed tracks on the current disc (or multi-CD player), ITS advances to the next disc (or multi-CD player).

Erasing ITS Programs

ITS programs for up to 100 discs are stored permanently until you erase them.

■ Erase a track program

1. **Select the track you wish to erase, during ITS playback.**
2. **Select the ITS Programming mode in the Detailed Setting Menu.**
3. **Erase the track program.**



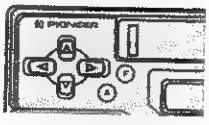
ITS is canceled and playback of the next ITS-programmed track begins. If there are no more programmed tracks in the current range, "CLEAR" is displayed and normal playback resumes.

Note:

- Pressing the BAND button cancels the Detailed Setting Menu.

■ Erase a disc program

1. **Select the disc you wish to erase, while the disc is playing.**
2. **Select the ITS Programming mode in the Detailed Setting Menu.**
3. **Erase the disc program.**



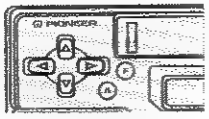
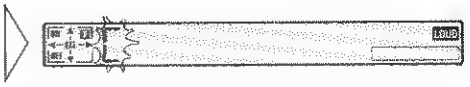
Note:

- Pressing the BAND button cancels the Detailed Setting Menu.

Disc Title Input

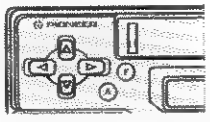
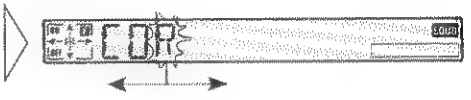
The multi-CD player's ADPS (Automatic Disc Program Selection) function permits entry of up to 100 disc titles comprising up to 10 characters – including titles of ITS-programmed discs – to simplify search and selection of discs for playback.

1. **Play the disc you wish to input the disc title.**
2. **Select the Disc Title Input mode in the Detailed Setting Menu.**
3. **Select a letter, number or symbol.**

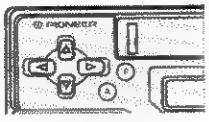



To insert a space, select the flashing cursor.

4. **Reverse or advance box by box.**

5. **When the title is completed, store it in memory to make the flashing cursor fade out.**



The title remains on the message display.

Note:

- Pressing the BAND button cancels the Detailed Setting Menu.
- Titles remain in memory, even after the disc has been removed from the magazine, and are recalled when the disc is reinserted.
- After the titles for 100 discs have been entered, data for a new disc will overwrite the data for the disc that has not been played back for the longest time. If a Multi-CD player is installed, the data is stored in the Multi-CD player's memory.

■ Displaying Disc Titles

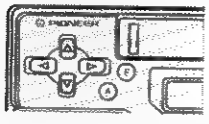
- **Change the Disc Title display of the current disc.**

If no title has been input for a disc, "NO TITLE" flashes on the display for 8 seconds, after which the display becomes blank.
Repeat the preceding operation to return to the normal display.

■ Selecting Discs by Discs Title List

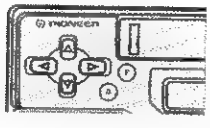
Follow the procedures below to play a disc for which you have input the title in a multi-CD player:

1. **Select the Disc Title List mode (LIST) in the Function Menu.**
2. **Each time you press the ◄ or ► button, titles in the current disc magazine are displayed in the order of their disc numbers.**



Nothing is displayed for disc whose title have not been input.

3. **Select the desired disc for playback by pressing ▲ button when its title is displayed.**



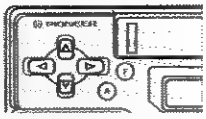
To cancel the Function Menu, press the BAND button.

Using the Programmable Button

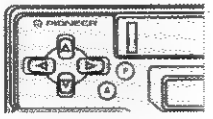
In the Function Menu, you can memorize the PAUSE, REPEAT, RANDOM, LIST and ITS functions in the Programmable button.
Initially, PAUSE is memorized in the Programmable button.

■ Setting the Programmable Button

1. **Select the Programmable button setting mode in the Detailed Setting Menu.**
2. **Select the function you want to memorize in the Programmable button.**



3. **Memorize the function in the Programmable button.**

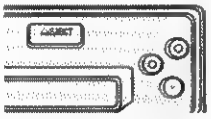


Note:
- Pressing the BAND button cancels the Detailed Setting Menu.

■ Using the Programmable Button

The Programmable button operates in a different way depending on the function programmed (memorized).

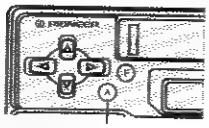
- **Use the Programmble button.**



Function	Press	Hold for 2 seconds
PAUSE	ON/OFF	——
REPEAT	Selecting the mode	——
RANDOM	ON/OFF	——
LIST	Enter the LIST mode	——
ITS	ITS Programming	ON/OFF

Selecting the Mode

- **Select the mode you want to adjust.**



Each press
changes the Mode ...

Each press of the AUDIO button selects the mode in the following order:
Fader/Balance → Bass → Treble → Loudness → F.I.E. mode

When audio modes are selected for adjustment, the setting returns to the normal display after 30 seconds.

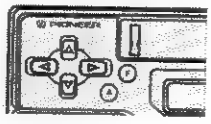
Balance Adjustment

This function allows you to select a Fader/Balance setting that provides ideal listening conditions in all occupied seats.

1. **Select the Fader/Balance mode.**

   After adjustment use the BAND button to return to the normal display.

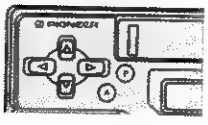
2. **Shift the balance progressively to the front or rear speakers.**



"FAD F15" – "FAD R15" is displayed as it moves from front to rear.

Note:
- "FAD 00" is the proper setting when 2 speakers are in use.

3. **Shift the balance to the left or right speaker, respectively.**



"BAL L9" – "BAL R9" is displayed as it moves from left to right.

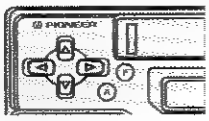
Bass/Treble Adjustment

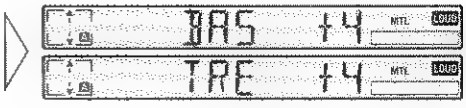
This product is equipped with two tone adjustment modes, the Bass Adjustment and Treble Adjustment modes.

1. **Select "Bass Adjustment mode" or "Treble Adjustment mode".**

   After adjustment use the BAND button to return to the normal display.

2. **Increase or decrease the intensity of the bass or treble, whichever is selected.**





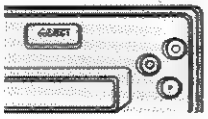
The display shows "BAS +4" – "BAS –8" when you adjust the bass.
The display shows "TRE +6" – "TRE –6" when you adjust the treble.

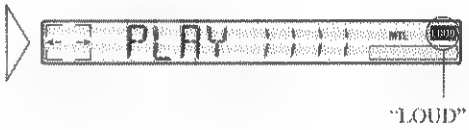
3. **Repeat steps 1 – 2 above for the other Bass or Treble Adjustment mode.**

Loudness Adjustment

The Loudness function compensates for deficiencies in the low and high sound ranges at low volume.

- **Switch the Loudness function ON or OFF.**





Note:

- You can also switch the Loudness function ON/OFF in the Audio Adjustment Menu.

Using the F.I.E. Function

The F.I.E. (Front Image Enhancer) function is a simple method of enhancing front imaging by cutting mid- and high-range frequency output from the rear speakers, limiting their output to low-range frequencies.

Precaution:

- When the F.I.E. function is deactivated, the rear speakers output sound in all frequencies, not only bass sounds. Reduce the volume before disengaging F.I.E. to prevent a sudden increase in volume.

Note:

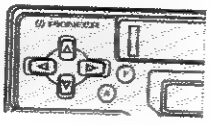
- Please set F.I.E. function OFF when using 2 speaker system.

■ Activating the F.I.E. Function

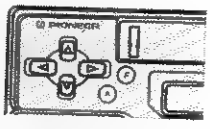
1. **Select the F.I.E. mode.**

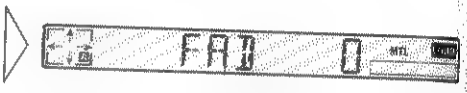
   After adjustment use the BAND button to return to the normal display.

2. **Activate the F.I.E. function.**



3. **Select the Fader/Balance mode.**

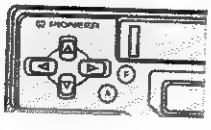




This function adjusts the front and rear speaker volumes for better balanced listening. (Refer to "Balance Adjustment".)

■ Deactivating the F.I.E. Function

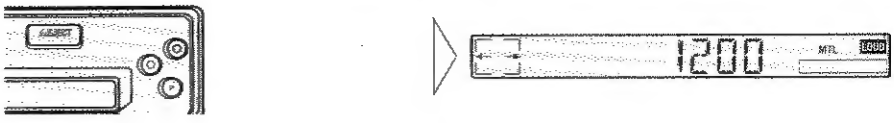
- **Cancel the F.I.E. function in the F.I.E. mode.**



Time Display/Setting

Displaying the time

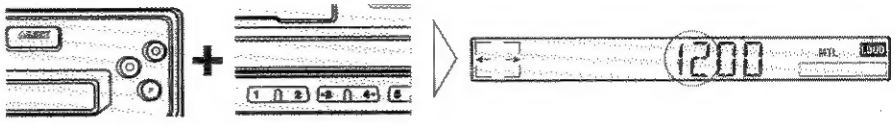
- **To turn the time display ON with the Source ON.**



The time display disappears temporarily when you perform another operation, but the time indication returns to the display after 25 seconds.

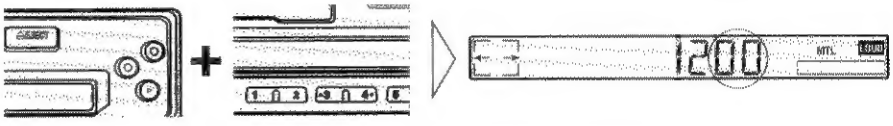
Setting the Hours

- **While holding down the CLOCK button, press button 1 to set the hour.**



Setting the Minutes

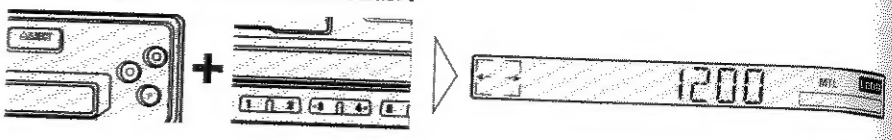
- **While holding down the CLOCK button, press button 2 to set the minute.**



When you release the CLOCK button, the second count begins from 00 seconds.

■ Synchronizing with the time announcement

- **While holding down the CLOCK button, press button 3 to reset the minute and second indications to zero. Example: When synchronizing between 11:30 and 12:29.**



Note:

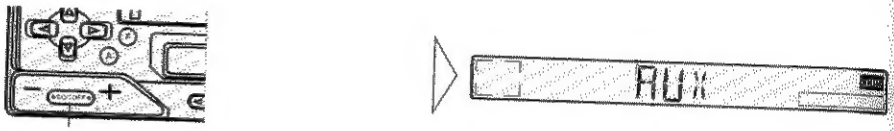
- The hour and minute can be advanced by pressing the respective buttons either consecutively or continuously.

Using the AUX mode

It is possible to use auxiliary (AUX) equipment with this product.
Activate the AUX mode when using external equipment with this product.

■ Selecting the AUX Mode

- **Select AUX.**

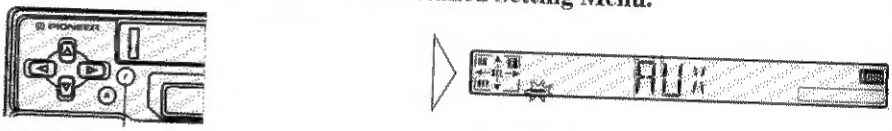


Each press
changes the Source ...

■ AUX Title Input

The display title for AUX mode can be changed.

1. **Select the Aux Title Input mode in Detailed Setting Menu.**



Hold for 2 seconds

2. **Input the Aux Title.**

Refer to "Disc Title Input" on page 34, and perform procedures 3 to 5 in the same way.

General

Power source ..... 14.4 V DC (10.8 – 15.1 V allowable)
Grounding system ..... Negative type
Max. current consumption ..... 8.5 A
Dimensions
(DIN) (chassis) ..... 178 (W) × 50 (H) × 150 (D) mm
(nose) ..... 188 (W) × 58 (H) × 19 (D) mm
(D) (chassis) ..... 178 (W) × 50 (H) × 155 (D) mm
(nose) ..... 170 (W) × 48 (H) × 14 (D) mm
Weight ..... 1.2 kg

Amplifier

Continuous power output is 17 W per channel min. into 4 ohms, both channels driven 50 to 15,000 Hz with no more than 5% THD.
Maximum power output ..... 35 W × 4
Continuous power output ..... 17 W × 4
(1% dist. at 1 kHz)
Load impedance ..... 4 Ω (4 – 8 Ω allowable)
Preout output level/output impedance ..... 500 mV/1 kΩ
Tone controls
(Bass) ..... +8 – –16 dB (100 Hz)
(Treble) ..... ±12 dB (10 kHz)
Loudness contour ..... +10 dB (100 Hz), +7 dB (10 kHz)
(volume: –30 dB)

Cassette player

Tape ..... Compact cassette tape (C-30 – C-90)
Tape speed ..... 4.8 cm/sec.
Fast forward/rewinding time .... Approx. 100 sec. for C-60
Wow & flutter ..... 0.09% (WRMS)
Frequency response ..... Metal: 30 – 19,000 Hz (±3 dB)
Stereo separation ..... 45 dB
Signal-to-noise ratio
..... Metal: Dolby B NR IN: 67 dB (IEC-A network)
Dolby NR OUT: 61 dB (IEC-A network)

FM tuner

Frequency range ..... 87.5 – 108 MHz
Usable sensitivity
..... 11 dBf (1.0 µV/75 Ω, mono, S/N: 30 dB)
50 dB quieting sensitivity .... 16 dBf (1.7 µV/75 Ω, mono)
Signal-to-noise ratio ..... 70 dB (IEC-A network)
Distortion ..... 0.3% (at 65 dBf, 1 kHz, stereo)
Frequency response ..... 30 – 15,000 Hz (±3 dB)
Stereo separation ..... 40 dB (at 65 dBf, 1 kHz)

AM tuner

Frequency range ..... 531 – 1,602 kHz (9 kHz)
530 – 1,710 kHz (10 kHz)
Usable sensitivity ..... 18 µV (25 dB) (S/N: 20 dB)
Selectivity ..... 50 dB (±9 kHz)
50 dB (±10 kHz)

Note:

- Specifications and the design are subject to possible modification without notice due to improvements.

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